

## ABSTRACT

In an aspect, a method and a system are provided to improve data transmission. In an aspect, the transmitted data is broadcasted. Data is compiled on reported factors that cause data transmission errors and predictions are compiled on unreported factors that cause data transmission errors. In an aspect, the data transmission error factors include regional factors including terrain, environmental factors including weather, atmospheric conditions, sunspot activity and season, radio frequency propagation including Keplerian elements, and retransmission factors. In an aspect, data error correction is employed based on the reported factors and on the predicted factors.